	Α	ВС	D	E	F	G	Н	1	J	M
1	Reql	ARIMS M Category	SubCategory	Component	ShortDescription	DateEntered	DateCompleted	LongDescription	Comments	Reviewer Comments
	37	AV_ARIMS Analysis Too	ls Habitat Quality		Redefined ODFW Summary Reach Tool	12/16/2003	3	Tool: the ability to identify an upstream and	Need Input: 1. Is an output report	
								downstream point, the tool then finds all of	needed? If so, an example of the	
								the ODFW habitat units on that stretch, uses		
								the ODFW criteria to redefine the summary	elements. 2. Also need to	
								reaches.	investigate differences in the ODFW	
									criteria between Westside/Eastside.	
2										
	2	AV_ARIMS Analysis Too	ls	Report/Map	Stream Miles Table	12/16/2003	3	The ability to produce a table that		
								summarizes stream miles for a selected set		
								of reaches. The summary should be grouped		
								by reach levels.		
3										
	38	AV_ARIMS Create Tools	Habitat Quality		Redefined ODFW Summary Reaches	12/16/2003	3	The ability to insert the redefined ODFW		
								summary reaches into ARIMS. The new		
								reaches should have a Level 1 value of		
								Habitat Quality.		
4		AV ADIMO 5: : = :		D	EL DI LIL III O	4014110		71 199 1 2 3		
_	79	AV_ARIMS Display Tool	S	Report/Map	Fish Distribution Overlay	12/16/2003	5	The ability to spatially overlay fish		
5	00	AV ADIMO Dissels. T		Donast /Mar.	Fish Distribution Spatial Display	10/1/ /0000		distribution data with habitat data.	-	
6	80	AV_ARIMS Display Tool	S	Report/Map	Fish distribution Spatial display	12/16/2003	5	The ability to create a map displaying		
0	21	AV_ARIMS Display Tool	·	Report/Map		12/16/2003)	Presence and Absence by species. The ability to overlay Fish Distribution with		
	2.1	AV_AKTIVIS DISPIAY TOOI	5	кероп глиар		12/10/2003		barriers to determine what species are		
7								affected by the barrier.		
<u> </u>	78	AV_ARIMS Display Tool	s Reach Type	Report/Map	Fish Distribution	12/16/2003	1	The ability to map fish distribution by		
	70	AV_ARTIVIS Display 1001	3 Reach Type	rcport/wap	Tish distribution	12/10/2003		species.		
								эресісэ.		
8										
9		AV_ARIMS Display Tool		Report/Map	Display Fish Use	12/16/2003		The ability to map Fish Use reaches.		
	35	AV_ARIMS Display Tool	S	Report/Map	Display Habitat Quality	12/16/2003	3	The ability to spatially display the Habitat		
10								Quality reaches symbolized by the good, fair,		
10	47	AV_ARIMS Display Tool		Depart/Man	Dianlay Danarta	12/16/2003		poor rankings. The ability to link to one or more PDF reports	Need Immit. 1 Are the reports	
	40	AV_ARTIVIS DISPIAY TOOI	5	Report/Map	Display Reports	12/10/2003			related to a reach/site or a whole	
								and display them.	stream? 2. What is the maximum	
									size of the filename (character	
									length)? 3. Are all the files in PDF	
									format, or do other file formats	
									need to be supported? 4. Do the	
									users want to access the files from	
									ArcView or from the data entry	
									forms? 5. There should be a central	
									(district) location for reports.	
									District must specify the location. 6.	
									There needs to be a process for	
									ensuring no duplicate filenames. 7.	
									Sample reports should be provided.	
11										
	3	AV_ARIMS Display Tool	S	Virtual Table	Map Product	12/16/2003	3	The ability to add a table to a map that	Need Input: Is this basic ArcView	
								contains: Presence/Absence, Habitat,	beyond needing the table?	
								Population Strength, and Habitat Quality	Clarification is needed for the	
40								(Good, Medium, Low).	element: Population Strength.	
12	I			1			1			

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1		I ARIMS M			Component	ShortDescription	DateEntered	DateCompleted	LongDescription	Comments	Reviewer Comments
13		Fish	Fish Use	Reach Type		Fish Use	12/16/2003		The reach type Fish Spawning Habitat should be changed to Fish Use.		
14	23	Fish	Fish Use	Reach Type	Informational	Fish Use - Use Not Verified	12/16/2003		Fish Use, Use Not Verified is described as "best professional judgment suggests use."		
15	24	Fish	Fish Use	Reach Type	Informational	Fish Use - Use Verified	12/16/2003		Fish Use, Use Verified is described as "use field verified/observed by reputable fish biologist."		
16	26	Fish	Fish Use	Reach Type		Fish Use Level 2	12/16/2003		The level 2 values for Fish Use reaches should be: Migratory, Winter Migratory, Spawning, Rearing, Spawning & Rearing, and Holding.		
10	27	Fish	Fish Use	Reach Type		Fish Use Level 3	12/16/2003		The level 3 values for Fish Use reaches should be: Use Verified and Use Not Verified.		
17											
	28	Fish	Fish Use	Reach Type		Fish Use Level 4	12/16/2003		The level 4 value for Fish Use reaches should be species code.		
18											
19	29	Fish	Fish Use	Reach Type	Informational	Fish Use Points	12/16/2003		Fish Use is reach based data. To represent point data (ex. Spawning, Holding), the user should create very small reaches.		
20	106	Fish	Fish Use	Reach Types		Fish Use Level 1			The system shall support entry and update for Fish Use reaches by type of use, verification status and species.		
20	74	Fish	General Survey	All	Data Elements	General Survey Data Elements	12/16/2003		System shall support entry and update of the following data elements pertinent for all fish surveys: LLID, Beg Index, End Index, Method 1, Method 2, Reach No (user assigned), Reach ID (system assigned), Comments, Investigator, Source, Purpose, Survey Begin Date, Survey End Date.		
21									Survey Begin Date, Survey End Date.		
	48	Fish	General Survey	All	Data Elements	Linking Field	12/16/2003		A text field to reference to indicate the location of additional information.	Need Input: Is it acceptable to the user group to use the comments field for this information?	,
22	89	Fish	General Survey	All	Picklists	Method Picklist	12/16/2003		The pick list for the field Method is: Electroshocking (Single Pass), Electroshocking (Multi-Pass), Hand Seining, Hook and Line, Long Standing Natural Barrier, Screw Trap, Snorkeling, Using Spawning Survey, Visual, Weir Adult Trap,		
24	82	Fish	General Survey	AII	Informational	Method: Other	12/16/2003		Other If a user selects "Other" for Protocol, the Method should be noted in the comments. This process should be described in the ARIMS data dictionary and User's Handbook.		

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1	Reql	ARIMS N	// Category	SubCategory	Component	ShortDescription	DateEntered	DateCompleted	LongDescription	Comments	Reviewer Comments
	91	Fish	General Survey	All	Picklists	Survey Method/Protocol Pick list	12/16/2003		The ability at the State Office Data		
									Steward/team level to add new protocols to		
									the Survey Method/Protocol pick list after		
									standing user group approves the request.		
25									standing user group approves the requesti		
		Fish	Habitat Quality	Reach Type		Habitat Quality Level 1			The system shall support entry and update		
			riabitat Quanty	rtodor. Typo		nabitat Quanty 2010. 1			for Habitat Quality reaches by quality		
26									ranking.		
20		Fish	Habitat Quality	Dooch Typo		Habitat Quality Level 2 Values	12/16/2003		Habitat Quality reaches should have the		
	31	LISH	Habitat Quality	Reacii Type		habitat Quality Level 2 values	12/10/2003				
									following Level 2 values: Good, Fair, and		
27									Poor.		
	_	Fish	Habitat Quality	Reach Type	Informational	Habitat Quality Level 3 & 4 Values	12/16/2003		There are no Level 3 or Level 4 values for	Need Input: Does there need to	
	02	1 1311	riabitat Quanty	reden Type	mormational	riabitat Quality Edver 6 a 1 values	12/10/2000		Habitat Quality reaches.	be a Level 4 value for Species?	
20									riabitat Quality reacties.	be a Level 4 value for Species:	
28		Fich	Hobitot Ovelity	Doodh Time	Information -	Habitat Quality Donahas Donariation	12/1//2002		Habitat Quality ranghas are muslitative		
	34	Fish	Habitat Quality	Reach Type	Informational	Habitat Quality Reaches - Description	12/16/2003		Habitat Quality reaches are qualitative		
									assessments made for fish purposes. They		
-									are based on quantitative habitat survey data		
29									and are determined by using the ODFW		
	112	Fish	Misc			Streamlined Data Entry			The Fish module shall be designed to		
									streamline data entry and minimize duplicate		
30	_								data entry.		
		Fish	Misc			User Friendly Interface			The Fish module shall be designed to be user		
31									friendly.		
	5	Fish	Population Measu	All		External Data Sources	12/16/2003		Ability to get data from other sources.	Need Input: What functionality is	
										needed: data import, manual entry	
										or the ability to link? More specific	
										information is needed on what the	
										users would like to import from or	
										link to.	
32										mik to.	
	6	Fish	Population Measu	AUC-Redd Count	Excel Spreadsh	Hatchery/Wild on spreadsheet	12/16/2003		Ability to record Origin (hatchery or wild) on		
					·				the spreadsheet. Data element will not be		
									stored in the database and it is not used in		
33									any calculation.		
		Fish	Population Measu	AUC-Redd Count	Data Element	Jacks	12/16/2003		The ability to record the number of jacks, but	Need Input: Should this be on the	
	'						12. 12. 2000		they should not be included in the AUC	spreadsheet only or should the data	
									population.	element be added to the database?	
									population.	Al to re-check on whether Jacks are	
										used in the AUC calculations.	
34										used in the AUC calculations.	
		Fish	Population Mossi	ALIC-Redd Count	Data Flement	Number of Disturbed Redds	12/16/2003		Redd Count should provide the ability to put		
	7	1 1311	opulation weast	AOO-NOUG COUIT	Pata FIGHICILL	Trainboi di Disturbou Neuus	12/10/2003		a field on the excel spreadsheet for noting		
35											
33		Fish	Population Moss	ALIC Dodd Count	Informational	Process for counting	12/16/2003		the disturbance type and count.		
	١٥	1 1211	r opulation weast	AUC-REUU COUIII	IIIIOIIIIalioiial	Frocess for counting	12/10/2003		For AUC Redd Count, each redd should be		
36									counted once and flagged. This follows the		
30		Tioh.	Demulati M.	ALIC Dodd C-	Information	Masteida Mathad	40/4/ /0000		current handbook for AUC Redd Count.		
0.7		Fish	Population Measi	AUC-Read Count	informational	Westside Method	12/16/2003		For Population Measures, AUC is done		
37		F: 1	D 11: **		0 1 1	M III I B O I I I I	2012110		exclusively on the Westside.	M 111 1 1 6 1 1 1 1 1	
	49	Fish	Population Measu	Multiple Pass	Calculation	Multiple Pass Calculations	12/16/2003		On the multiple pass there are some	Multiple pass deferred to later	
									calculations that could be supported in	release	
									ARIMS. Same for some snorkeling that is		
									backed up by some electroshocking. (Note:		
38									This needs follow-up investigation).		

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1 F	ReqLARIMS	M Category	SubCategory	Component	ShortDescription	DateEntered Da	ateCompleted	LongDescription	Comments	Reviewer Comments
	47 Fish	Population Measu	One Day Survey	Informational	Eastside Method	12/16/2003	•	For Population Measures, Redd Count is done		
39								occasionally on the Eastside.		
	41 Fish	Population Measu	One Day Survey		Field Conditions	12/16/2003		System shall provide the ability to record		
40								Field Conditions for all surveys.		
	12 Fish	Population Measu	One Day Survey	Data Elements	One Day Survey Data Elements	12/16/2003		Data elements applicable for One Day	Need Input: 1. Is age class	
								Surveys include: Peak (timing code), Redds	needed? 2. Protocols are needed	
								(intact, disturbed, total), Adults, Males (by	for One Day Surveys.	
								Hatchery or Wild), Females (by Hatchery or	, ,	
								Wild), Jacks (by Hatchery or Wild), Carcass,		
41								Species		
	42 Fish	Population Measu	One Day Survey	Informational	One Day Surveys	12/16/2003		Peak Surveys should be referred to as One		
								Day Surveys. The fish handbook should be		
42								updated to reflect this.		
43	43 Fish	Population Measu	One Day Survey	Informational	Reach Based	12/16/2003		One day surveys are reach based.		
	11 Fish	Population Measu	One Day Survey	Informational	Redd Count Survey	12/16/2003		Redd Count is a part of AUC, but there is		
		'	, ,		j			also a separate Redd Count survey. The		
44								Redd Count is done at peak or after peak.		
	13 Fish	Population Measu	One Day Survey	Informational	Redd Count Survey Purpose	12/16/2003		The purpose of the Redd Count is to get a		
		'	, ,		, ,			count of redds along a reach. The data is		
								typically used to compare density of redds on		
45								a reach from year to year.		
	55 Fish	Population Measu	Population	Data Elements	Population Measure Data Elements	12/16/2003			Functionality deferred.	
						12, 13, 233		to record density per habitat unit (derived		
46								value).		
10	56 Fish	Population Measu	Population		Population Measure Data Elements	12/16/2003			Functionality deferred.	
	00 1 1311	r opulation measer	opulation		Topulation Wedsare Bata Elements	12/16/2000		to record spawning density (derived value).	ranctionality deserved.	
47								to record spawning density (derived value).		
	57 Fish	Population Measu	Population		Population Measure Data Elements	12/16/2003		For Population Measure Surveys, the ability	Functionality deferred.	
48	07 1011	i opulation model.	. opulation		opulation measure bata bromente	12, 13, 2333		to record biomass (derived value).	rancinenanty acremear	
	58 Fish	Population Measu	Population		Population Measure Data Elements	12/16/2003			Functionality deferred.	
						12, 13, 233		to record population (derived value).		
49								to record population (derived value).		
	59 Fish	Population Measu	Population		Population Measure Data Elements	12/16/2003		For Population Measure Surveys, the ability		
50	071.1011	i opulation model.	. opulation		opulation measure bata broments	12, 13, 2333		to record abundance.		
	60 Fish	Population Measu	Population		Population Measure Data Elements	12/16/2003			Functionality deferred.	
	33	. opalation model				.2/ 10/2000		to calculate length frequency (derived value).		
51								to saistants longin hoquency (derived value).		
	61 Fish	Population Measu	Population	Informational	Relative Abundance	12/16/2003		Abundance is defined as a one time count		
	3	. opalation model		allorial		.27 1072000		(single effort). Repeated efforts over time to		
								the same stream would provide relative		
								abundance. Can also compare two different		
								streams on the same day to provide relative		
52								abundance.		
	63 Fish	Population Measu	Population		Relative Abundance	12/16/2003		The ability to compare relative abundance	Need Input: What is the output	
		- p ===================================	- L					T	needed? A report, a map, a table,	
53								F-F	other?	
	66 Fish	Population Measu	Population	Informational	Survey Duration	12/16/2003		Population Surveys may have duration of one		
54		paiation model		Jatioriai		.23.2000		or more days.		
	70 Fish	Population Measu	Population	Informational	Weirs & Traps	12/16/2003			Functionality deferred.	
	. 5	paiation model		Jatioriai		.2, .3, 2000		kept at ODFW; ARIMS should only hold the	uo.ouu	
55								summary data.		
				ļ				Juninary data.		

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1	Reql	ARIMS N	// Category	SubCategory	Component	ShortDescription	DateEntered	DateCompleted	LongDescription	Comments	Reviewer Comments
	16		Population Measu			Spawning Surveys	12/16/2003		Spawning Survey types include: Area Under	_	
									the Curve (AUC) including AUC Redd counts		
									(multiple days), and ODFW Redd Counts		
									(peak or after-peak - one day).		
56									(peak of arter peak one day).		
	93	ish	Population Measu	Snawning Surve	Informational	Survey Method	12/16/2003		There are four reach based survey types for	Need Input: 1. Protocols are	
	, ,	1311	i opalation weast	opawing our vo	mormational	our voy mounou	12/10/2000		Spawning Surveys: Redd, AUC, Emap	needed for all types except AUC. 2.	
									(OWEB), and One Day Surveys.	Are these the correct survey types?	
57									(OVVEB), and One Day Surveys.	Are these the correct survey types?	
31	97	ich	Population Measu	Moire	Informational	Sitos	12/16/2003		Weir data is site based data that pertains to	_	
58	71	1311	r opulation ineast	. Well 3	IIIIOIIIIatioilai	Sites	12/10/2003		a sub-watershed or reach.		
30	98	ich	Donulation Massu	Moire	Data Flamente	Curvove	12/16/2003			Functionality deferred.	
F0	98	-ISH	Population Measu	vveirs	Data Elements	Surveys	12/16/2003			runctionality deferred.	
59		,	D 1 11 14		D . E	011	40/4//0000		adult and juvenile traps.	-	
00	44	-isn	Population Measu	ures	Data Elements	Other Pop Survey Data	12/16/2003		The system will support the entry of other	Functionality deferred.	
60			D 111 11		D . E	D 1 11 M D 1 51	40/4/ /2222		population survey data.	5 " " 16 1	
	54	-ısh	Population Measu	ures	Data Elements	Population Measure Data Elements	12/16/2003	1		Functionality deferred.	
									to record length/weight (measured value).		
61			_	I							
	72	ish	Presence Absence	Reach Type	Informational	Absence Not Verified	12/16/2003	1	Absence Not Verified is described as "best	Need Input: Approval is needed	
									professional judgment suggests absence."	for the Presence Absence protocols	
										from field office fish biologists.	
62											
	73	ish	Presence Absence	Reach Type	Informational	Absence Not Verified	12/16/2003		Absence Not Verified is not protocol		
									dependent. Value for protocol should be		
63									"Other."		
	108	ish	Presence Absence	Reach Type		Fish Anad/Verification/Run/Species			System shall support entry and update of		
				31		'			anadromous populations reaches by		
									run/season and species (including		
64									Ecologically Significant Units).		
	107	ish	Presence Absence	Reach Type		Fish Resident/Verification/Species			System shall support entry and update of		
									resident population reaches by verification		
65									status and species.		
	110	ish	Presence Absence	Reach Type		Pres Abs Run Codes			The run codes for Anad Fish are Spring,	_	
66	1.0	1311	Treseriee Abserie	reden Type		Tros Alba Ruir obdos			Summer, Fall, Winter and Other.		
	109	ich	Presence Absence	Peach Type		Pres Abs Verification Status Codes			The verification status codes for Presence	_	
	107	1311	TOSCHOO ADSCHO	Todon Type		1103 7.03 Verification Status Coucs			Absence reaches are: Presence Verified,		
									Presence Not Verified, Absence Not Verified,		
67											
07	84	ich	Presence Absence	Poach Typo	Informational	Presence Not Verified	12/16/2003		Absence Verified. Presence Not Verified is described as "best	Need Input: Approval is needed	
	84	1511	Fresence Absenc	кеасп туре	mnormational	Fresence Not Verilled	12/10/2003	1			
									professional judgment suggests presence."	for the Presence Absence protocols	
60										from field office fish biologists.	
68	25	-1-1-	D A1	D b T	1	Durana Nativa ifia d	40/4//0000		December Net VentGert	No addisorate Ann.	
	85	-ıs n	Presence Absence	keacn Type	intormational	Presence Not Verified	12/16/2003	1	Presence Not Verified is not protocol	Need Input: Approval is needed	
									dependent. The value for protocol should be	· ·	
									"Other".	from field office fish biologists.	
69											
	86	-ish	Presence Absence	Reach Type	Informational	Presence Verified	12/16/2003	1	Presence Verified is described as "field	Need Input: Approval is needed	
									verified/observed by a reputable fish	for the Presence Absence protocols	
									biologist."	from field office fish biologists.	
70											
71	87		Presence Absence		Informational	Presence Verified	12/16/2003		Presence Verified is protocol dependent.		
	39	ish	Presence Absence	Site Type		Incidental Data	12/16/2003		A site type is needed to represent incidental	Follow up needed: Is this really	
									data.	needed? If so, more details are	
72										needed.	
						· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		

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1	Re	qI ARIMS M	Category	SubCategory	Component	ShortDescription	DateEntered	DateCompleted	LongDescription	Comments	Reviewer Comments
	,	94 Fish	Study Site			AREMP Study Sites	12/16/2003	•	The ability to determine where AREMP data	Need Input: The user group	
									has been collected (study sites).	needs to confirm this is a business	
7:	_									need.	
		95 Fish	Study Site			EMAP Study Sites	12/16/2003		The ability to record a Study Site type of	Need Input: Need confirmation	
									OWEB Coho Monitoring (EMAP). The result is	that this is a business need.	
7	_								redds per mile.		
	10	00 Fish				FWS/NOAA Fisheries Matrix	12/16/2003		The ability to complete the FWS/NOAA	Follow up needed: the details for	
									Fisheries matrix.	this requirement need further	
7	_	05 5' 1				T. I. O.	40/4//0000		TI 100 1 1 6	investigation.	
70		05 Fish				Telemetry Surveys	12/16/2003		The ability to record summary data for	Deferred	
-		40 ODFW			Data Import	Now Curvoyo	12/16/2003		telemetry surveys.	Follow up pooded, the details for	
		40 ODF W			Data Import	New Surveys	12/10/2003		Ability to enter new ODFW surveys	Follow up needed: the details for	
7									(completed by BLM employees) into ARIMS.	this requirement need further	
<u>'</u>	_	15 Site Mainte	Sita Tyna			Redd Sites	12/16/2003		A site type is needed to mark location of	investigation.	
78		15 Site Mairit	Site Type			Redu Sites	12/10/2003		redds.		
<u> </u>	_	17 Site Mainte	Site Tyne			Revise Fish Barrier Site Type			To be determined.	Follow up needed: User group	
		17 Otto Mairie	one Type			Revise Fish Burrier Site Type			To be determined.	needs to review and possibly revise	
										existing fish barrier site types in	
79)									ARIMS.	
	,	96 Water Qua	Temperature		Data Element	Spawning Time Period	12/16/2003		The ability to record if a Water Temperature	Will be part of expected	
									Survey is completed during spawning time	Temperature revision.	
8)								period.	·	